



DECUS

PROGRAM LIBRARY

DECUS NO.	8-332
TITLE	THE CIVIL WAR GAME
AUTHOR	Ronald Servi
COMPANY	Lexington High School Lexington, Massachusetts
DATE	January 12, 1970
SOURCE LANGUAGE	CINET-BASIC

ATTENTION

This is a USER program. Other than requiring that it conform to submittal and review standards, no quality control has been imposed upon this program by DECUS.

The DECUS Program Library is a clearing house only; it does not generate or test programs. No warranty, express or implied, is made by the contributor, Digital Equipment Computer Users Society or Digital Equipment Corporation as to the accuracy or functioning of the program or related material, and no responsibility is assumed by these parties in connection therewith.

21030

1941

...

THE CIVIL WAR GAME

DECUS Program Library Write-up

DECUS No. 8-332

This BASIC program simulates the Civil War. Statistics, where possible, were used in this program. Since the Civil War was won or lost mostly by manpower and money, that is what this program is primarily based upon.

The following conditions prevail:

Each soldier needs: 1 gun, 1 ration of food, and \$45 in pay.

Each gun costs \$50 and each ration of food costs \$40.

If the above is not provided, starvation, desertion, and death rates increase.

The total amount of money that can be spent by either side is based upon total expenditures of the Civil War.

A surrender occurs if the total number of men available reaches 300,000 and/or the treasury has \$200,000.

Please use the following codes when playing this game: 0=no; 1=yes

STRATEGY CODES

<u>TYPE</u>	<u>CODE</u>	<u>SIGNIFICANCE</u>
Charge	2	Highest level of fighting
Defend	3	Medium level of action
Retreat	4	Lowest level of fighting

Note: For very large numbers, the computer will type a number such as 1.234567E+N. To "translate" this figure, count N places to the right of the decimal place. For example 1.234567E+7 is equal to 12,345,670.

L

```

5 REM RONALD SERVI CLASS OF 1971 THE CIVIL WAR GAME
100 LET A1=300000
101 LET R=28
105 LET F=15
110 LET A2=3.7E+9
120 LET A3=300000
130 LET A4=1.14E+9
140 LET B1=300000
150 LET B2=300000
160 LET C1=300000
170 LET C2=300000
180 LET C3=100000
190 LET C4=200000
200 LET C5=450000
210 LET C6=27000
220 LET D1=7E+8
230 LET D2=5E+8
260 LET C4=INT(C4+200000-A3/2)
261 IF A1>0 THEN 264
262 LET A1=R
264 LET C9=C9+450000
265 LET D1=D1-(((A1+A5)*F)+((A1+A5)*40)+C7*50)
266 IF C4>0 THEN 268
267 LET C4=0
268 IF D1<200000 THEN 1950
270 PRINT "
271 PRINT " REPORT TO COMMANDER IN CHIEF"
272 PRINT " UNION ARMY"
273 PRINT
274 PRINT
280 PRINT"ENEMY STATISTICS:"
285 PRINT" CONFEDERATE MEN ELIGIBLE FOR THE DRAFT";A4
290 PRINT" CONFEDERATE TROOP LEVEL AT";A3
300 PRINT" CONFEDERATE MEN DRAFTED ";A6
302 PRINT" CONFEDERATE MEN KILLED IN PAST THREE MONTHS";G2
305 PRINT" CONFEDERATE MEN KILLED BY DISEASE";G5
307 PRINT" CONFEDERATE MONEY REMAINING";D2;"DOLLARS"
309 PRINT" CONFEDERATE WEAPON SUPPLY";C4;"RIFLES"
310 PRINT
311 PRINT
312 PRINT
313 PRINT
320 PRINT"UNION ARMY STATISTICS:"
321 PRINT" TROOP DATA:"
330 PRINT" UNION TROOP LEVEL AT";A1
340 PRINT" UNION MEN DRAFTED IN PAST THREE MONTHS";A5
350 PRINT" UNION MEN ELIGIBLE FOR THE DRAFT";A2
355 PRINT" UNION MEN KILLED BY DISEASE";G3
360 PRINT" UNION MEN KILLED IN PAST THREE MONTHS";G1
370 PRINT" UNION MEN WHO DODGED OR DESERTED";H1+H2
371 PRINT" UNION WEAPON SUPPLY";C9;"RIFLES"

```



```

380 PRINT"          MONEY:"
390 PRINT"
400 PRINT"          SPENT ON FOOD";A1*40;"DOLLARS"
410 PRINT"          SPENT ON WEAPONS";C7*50;"DOLLARS"
420 PRINT"          SPENT FOR PAY";A1*F;"DOLLARS"
430 PRINT"          TOTAL MONEY SPENT";A1*(90+F);"DOLLARS"
431 PRINT"          UNION TREASURY";D1;"DOLLARS"
432 PRINT
433 PRINT
910 PRINT"DO YOU WISH TO CONTINUE";
920 INPUT X
930 IF X=0 THEN 2000
931 PRINT
932 PRINT
1000 PRINT "WHICH STRATEGY WOULD YOU LIKE TO EMPLOY FOR THE NEXT"
1001 PRINT"THREE MONTHS";
1005 INPUT E
1006 PRINT
1040 PRINT "HOW MANY MEN WOULD YOU LIKE TO ENLIST TO ADD TO YOUR"
1041 PRINT"PRESENT TROOP LEVEL:";
1045 INPUT A5
1046 PRINT
1050 IF A5<=A2 THEN 1065
1055 PRINT "THE MAXIMUM TROOPS YOU CAN DRAFT IS";A2
1060 GOTO 1040
1065 PRINT "HOW MUCH DO YOU WANT TO PAY EACH MAN IN YOUR ARMY FOR"
1066 PRINT" THE NEXT THREE MONTHS";
1070 INPUT F
1071 PRINT
1100 PRINT"HOW MANY WEAPONS DO YOU WANT FOR YOUR ARMY FOR THE"
1101 PRINT"NEXT THREE MONTHS";
1105 INPUT C7
1106 IF C7<=C9 THEN 1109
1107 PRINT"YOU ONLY HAVE ";C9;"WEAPONS"
1108 GOTO 1071
1109 PRINT
1110 PRINT
1111 PRINT
1130 IF D1<200000 THEN 1950
1140 IF E=3 THEN 1290
1150 IF E=4 THEN 1330
1240 GOSUB 1690
1245 LET G1=9000+R*100
1260 GOSUB 1690
1270 LET G2=11000+R*100
1280 GOTO 1370
1285 GOSUB 1690
1290 LET G1=6000+R*50
1300 GOSUB 1690
1310 LET G2=6000+R*50
1320 GOTO 1370
1330 GOSUB 1690
1340 LET G1=3000+R*50
1350 GOSUB 1690
1360 LET G2=2000+R*50
1370 IF C7>=A1 THEN 1400
1380 LET G4=INT(1/3*A1)

```



```

1400 LET D2=D2-(115*(A3+A6))
1410 IF D2<=200000 THEN 1960
1420 LET C9=INT(C9-(C7/2))
1500 LET H1=INT(1/5*A5)
1505 LET G3=INT(36/11*G1)
1507 LET G5=INT(258/94*G2)
1510 IF F>=45 THEN 1530
1520 LET H2=INT(1/45*(45-F)*A1)
1530 LET A1=INT(A1+A5-H1-H2-G1-G3-G4)
1689 GOTO 1800
1690 LET R1=ABS(R*A1*3.1415*RND(1))
1720 LET R2=R1/41
1730 LET R=R2-INT(R2)
1735 LET R=INT(41*R)
1740 RETURN
1800 GOSUB 1690
1810 LET A6=R*5000
1820 LET H3=INT(1/5*A6)
1830 IF C4>=A6 THEN 1850
1840 LET A7=(A6-C4)*1/3
1850 LET A3=A3+A6-H3-G2-G5
1860 LET A2=A2-A5
1890 LET A4=A4-A6
1895 IF A1+A2<300000 THEN 1956
1900 IF A4+A3<300000 THEN 1970
1910 LET G2=G2+A7+G5
1920 LET G1=G1+G4+G3
1940 GOTO 260
1950 PRINT"THE NORTH HAS SURRENDERED BECAUSE OF LACK OF FUNDS"
1955 GOTO 2000
1956 PRINT "THE NORTH HAS SURRENDERED BECAUSE OF THE LACK OF MEN"
1957 GOTO 2000
1960 PRINT"THE SOUTH HAS SURRENDERED BECAUSE OF LACK OF FUNDS"
1965 GOTO 2000
1970 PRINT "THE SOUTH HAS SURRENDERED BECAUSE OF LACK OF MAN POWER"
2000 END

```

